

ABSTRACT

An optical device (44) has a holding frame (446) that holds a liquid crystal panel (441) as an optical modulator and has an opening (446C) at a part corresponding to an image formation area of the liquid crystal panel (441), and a panel fixing plate (447) disposed between the holding frame (446) and a cross dichroic prism (444). The panel fixing plate (447) is made of a component having a thermal expansion coefficient lying midway between the thermal expansion coefficients of the holding frame (446) and the cross dichroic prism (444). The liquid crystal panel (441) is fixed on a side of the cross dichroic prism (444) through the holding frame (446) and the panel fixing plate (447). Accordingly, a thermal stress generated on the boundaries between the panel fixing plate (447), and the holding frame (446) and the cross dichroic prism (444) are reduced, thereby preventing the position shift of the liquid crystal panel (441).